

PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead/Ball Finish (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
TPS6591102A2ZRCR	LIFEBUY	BGA MICROSTAR JUNIOR	ZRC	98	2500	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	TPS6591102A2	
TPS6591102AA2ZRCR	LIFEBUY	BGA MICROSTAR JUNIOR	ZRC	98	2500	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	TPS6591102AA2	
TPS6591103A2ZRCR	LIFEBUY	BGA MICROSTAR JUNIOR	ZRC	98	2500	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	TPS6591103A2	
TPS6591104A2ZRC	LIFEBUY	BGA MICROSTAR JUNIOR	ZRC	98	240	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	TPS6591104A2	
TPS6591104A2ZRCR	LIFEBUY	BGA MICROSTAR JUNIOR	ZRC	98	2500	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	TPS6591104A2	
TPS6591104DA2ZRC	ACTIVE	BGA MICROSTAR JUNIOR	ZRC	98	240	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	TPS6591104DA2	Samples
TPS6591104EA2ZRCR	LIFEBUY	BGA MICROSTAR JUNIOR	ZRC	98	2500	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	T6591104EA2	
TPS6591106A2ZRCR	LIFEBUY	BGA MICROSTAR JUNIOR	ZRC	98	2500	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	T6591106A2	
TPS6591109A2ZRCR	LIFEBUY	BGA MICROSTAR JUNIOR	ZRC	98	2500	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	TPS6591109A2	
TPS659110A2ZRCR	ACTIVE	BGA MICROSTAR JUNIOR	ZRC	98	2500	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	TPS659110A2	Samples
TPS659112A2ZRCR	ACTIVE	BGA MICROSTAR JUNIOR	ZRC	98	2500	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	TPS659112A2	Samples
TPS6591133A2ZRC	ACTIVE	BGA MICROSTAR JUNIOR	ZRC	98	240	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	TPS6591133A2	Samples

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TPS6591133A2ZRCR	LIFEBUY	BGA MICROSTAR JUNIOR	ZRC	98	2500	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	TPS6591133A2	
TPS659113A2ZRC	LIFEBUY	BGA MICROSTAR JUNIOR	ZRC	98	240	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	TPS659113A2	
TPS659113A2ZRCR	LIFEBUY	BGA MICROSTAR JUNIOR	ZRC	98	2500	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	TPS659113A2	
TPS659114A2ZRCR	ACTIVE	BGA MICROSTAR JUNIOR	ZRC	98	2500	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	659114A2	Samples
TPS65911AA2ZRCR	LIFEBUY	BGA MICROSTAR JUNIOR	ZRC	98	2500	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	65911AA2	
TPS65911AA2ZRCT	LIFEBUY	BGA MICROSTAR JUNIOR	ZRC	98	250	Green (RoHS & no Sb/Br)	SNAGCU	Level-3-260C-168 HR	-40 to 85	65911AA2	

(1) The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSELETE: TI has discontinued the production of the device.

(2) **RoHS:** TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (Cl) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

(3) MSL, Peak Temp. - The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

(4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.

⁽⁵⁾ Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "-" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.

⁽⁶⁾ Lead/Ball Finish - Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead/Ball Finish values may wrap to two lines if the finish value exceeds the maximum column width.

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